

CLAIMS

1. A fusible conductor for a fuse element wherein the fusible conductor has a fusible wire (2) wound about an electrically insulating core (1),
5 characterised in that wound about the core (1) parallel to the fusible wire (2) there is at least one electrically insulating fibre (3) such that the fusible wire is fixed in position so that a short circuit of adjacent turns is prevented.
- 10 2. A fusible conductor as claimed in claim 1, characterised in that the fusible wire (2) and an insulating fibre (2) are wound closely adjacent to one another.
- 15 3. A fusible conductor as claimed in claim 2, characterised in that both the fusible wire (2) and also the insulating fibre (3) have an approximately circular cross section and the ratio of the diameter of the fusible wire to that of the insulating fibre is between $1/3$ and 3.
- 20 4. A fusible conductor as claimed in claim 3, characterised in that the ratio of the diameter of the fusible wire and to that of the insulating fibre is between 1 and 3.
- 25 5. A fusible conductor as claimed in claim 2, characterised in that the fusible wire (2) has an approximately circular cross section and the insulating fibre is situated between adjacent turns of the fusible wire such that the spacing between the turns is 0.2 to 2 times the diameter of the fusible wire.

6. A fusible conductor as claimed in claim 5 characterised in that the spacing between adjacent turns is smaller than the diameter of the fusible wire.

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7. A fusible conductor as claimed in claim 5 or 6, characterised in that the outer surface of the wound fusible wire projects beyond the outer surface of the insulating fibre.

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8. A fusible conductor as claimed in one of claims 3-7, characterised in that the core (1) has a circular cross section and the cross sectional dimensions of the insulating fibre (3) are smaller than the diameter of the core (1).

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9. A fusible conductor as claimed in one of claims 1 to 8, characterised in that the insulating fibre (3) consists of one or more glass fibres.

10. A fusible conductor as claimed in one of claims 1 to 8, characterised in that the insulating fibre consists of one or more ceramic fibres.

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11. A fusible conductor as claimed in one of claims 1 to 10, characterised in that the core (1) consists of one or more glass fibres.

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